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SMT Hardware

Test Points

- **▶** Ideal for use with standard probes, clips and hooks.
- **▶** Can be placed using industry standard equipment.
- **▶** Suitable for automatic or manual test.
- **▶** High speed placement.
- ▶ Industry standard tape and reel packaging.
- **▶** Strong and durable.



⇒ Materials

Material: Copper Alloy

Finish: Tin

→ Packaging

Format: Tape & Reel

Reel quantity

 \$1751-46R:
 2,500 on a Ø330mm reel

 \$2751-46R:
 2,500 on a Ø178mm reel

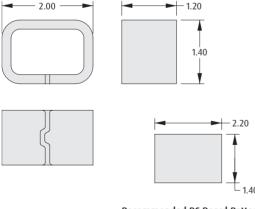
 \$2761-46R:
 3,000 on a Ø178mm reel

3.25 2.00 2.00 Recommended PC Board Pattern

ORDER CODE

S1751-46R

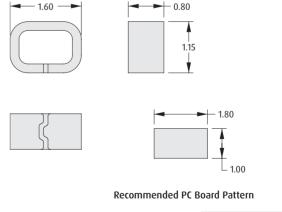
1.40mm HIGH



Recommended PC Board Pattern

ORDER CODE \$2751-46R

1.15mm HIGH



ORDER CODE

S2761-46R

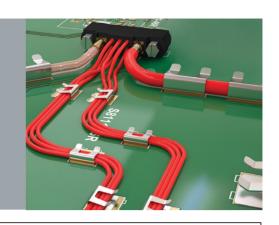


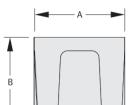


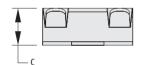
SMT Hardware

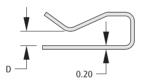
Cable Management & Grounding Clips

- Suitable for use with insulated cables with outer diameters Ø0.9 to Ø3mm and grounding braided coax cables.
- Cable clip can be soldered at same time as rest of board, reducing additional operation time required for mounting plastic clip types.
- Low profile & small footprint saves PCB space.









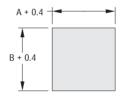
: Materials

Material: Copper Alloy Finish: Tin

: Packaging

Format: Tape & Reel

Reel quantity: Ø330mm reel, see table



Recommended PC Board Pattern

HOW TO ORDER

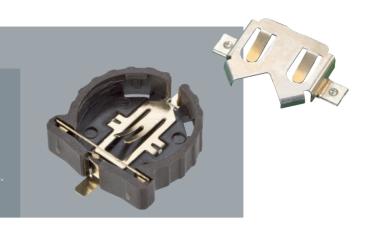
PART NO.	Α	В	C	D	COAX GROUNDING	CABLE RETENTION	REEL QUANTITY
S8091-46R	5.00	4.00	1.35	0.70	Ø1.12mm	2 x Ø0.9mm	3,000
S8101-46R	5.00	4.00	1.50	0.80	RG178, RG179, RG316	2 x Ø1.0mm	3,000
S8111-46R	5.00	5.00	2.05	0.80	RG174, RG179, RG316	3 x Ø1.0mm, 2 x Ø1.5mm	1,500
S8121-46R	7.00	5.50	2.55	1.30	n/a	2 x Ø1.5mm, 1 x Ø2.0mm	1,300
S8131-46R	10.00	8.00	3.55	1.80	RG58	3 x Ø2.0mm, 1 x Ø3.0mm	800



SMT Coin Cell Holder

Battery Retainer for Ø12mm Coin Cell

- ▶ Tape & reel packaged for auto-placement to PCB.
- ▶ Highly effective retention of coin cell batteries.
- **▶** Eliminates the need for soldered-in coin cells.
- Low profile design available with dual independent contact points for enhanced electrical reliability.
- ♣ Accommodates CR1220, CR1225 and similar coin cell batteries.

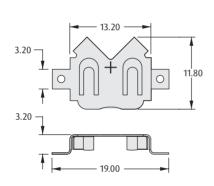


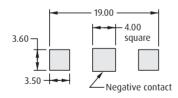
LOW PROFILE

→ Packaging

Format: Tape & Reel

Reel quantity: 1,000 on a Ø330mm reel
Suitable for battery size: BR1225, CR1216, CR1220, CR1225





Recommended PC Board Pattern

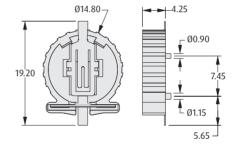
STANDARD

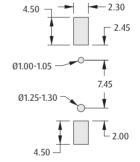
→ Packaging

Format: Tape & Reel

Reel quantity: 500 on a Ø330mm reel

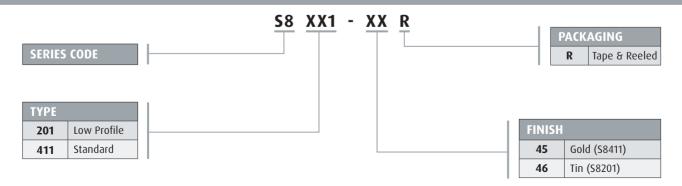
Suitable for battery size: CR1220





Recommended PC Board Pattern

HOW TO ORDER



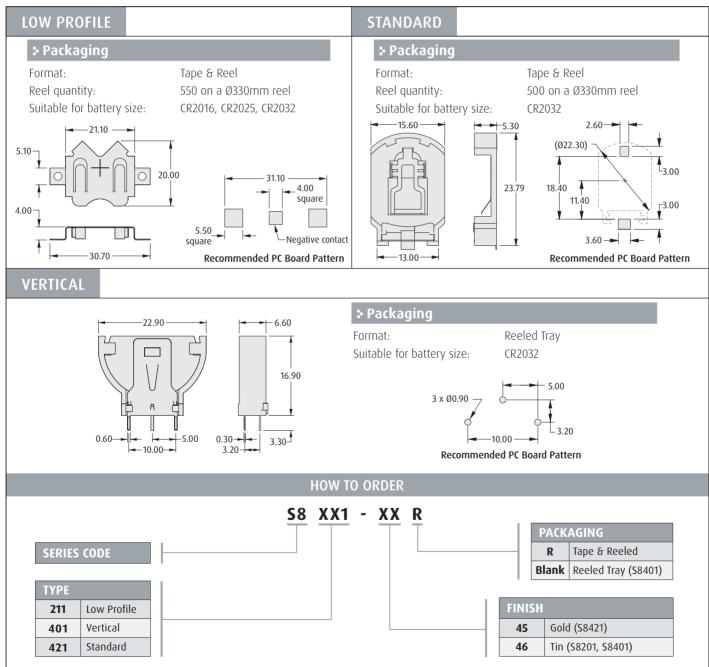


Coin Cell Holder

Battery Retainer for Ø20mm Coin Cell

- ▶ Horizontal designs are tape & reel packaged for auto placement.
- ▶ Highly effective retention of coin cell batteries.
- **▶** Eliminates the need for soldered-in cells.
- Vertical mount minimises PCB real estate usage.
- Low profile design available with dual independent contact points for enhanced electrical reliability.
- ► Accomodates CR2032 and similar coin cell batteries.



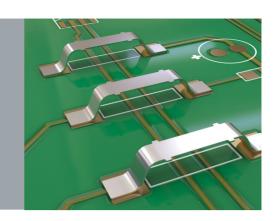




SMT Hardware

SMT Fixed Jumper Link

- ➤ Designed to link PCB tracks where through hole links are not possible.
- ➤ Typical applications include use on aluminium backplanes in power applications.
- ▶ High current.
- Small footprint.
- Low profile options available for space saving design.



: Materials

Material: Copper Alloy (\$1621, \$1911)

Copper (S1731)

Finish: Tin

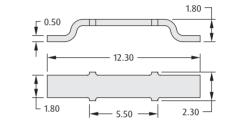
→ Packaging

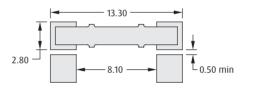
Format: Tape & Reel

Reel quantity

\$1621-46R: 5,000 on a Ø330mm reel \$1731-46R: 2,500 on a Ø330mm reel \$1911-46R: 4,000 on a Ø330mm reel

12.3mm LONG

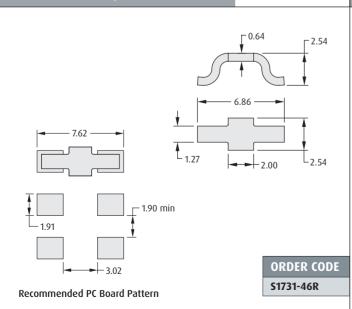




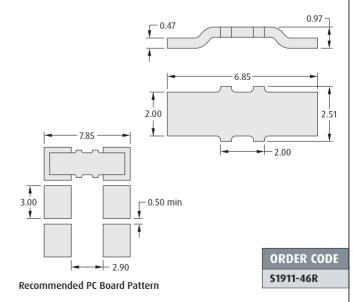
Recommended PC Board Pattern

ORDER CODE \$1621-46R

6.86mm LONG, 2.54mm HIGH



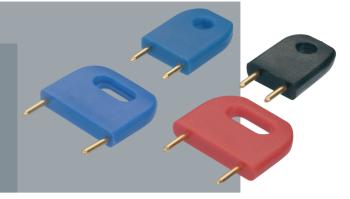
6.85mm LONG, 0.97mm HIGH

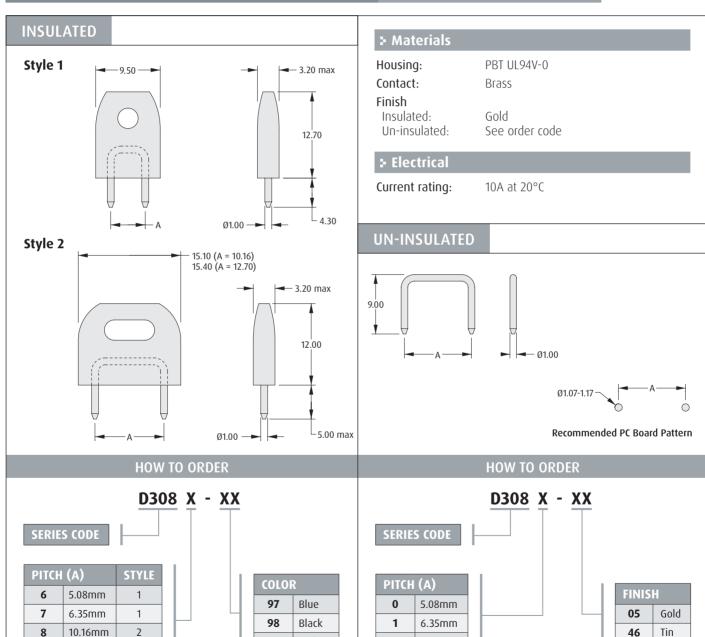




Ø1mm Shorting Link Plugs

- ♣ Choice of insulated or un-insulated links.
- ► Insulated links supplied in a variety of colors, with a high-performance gold finish.
- ► Un-insulated links can be soldered directly into the PCB for permanent linking.
- ➤ Can be used with individual PCB sockets for hardware programming applications.





All dimensions in mm.

9

12.70mm



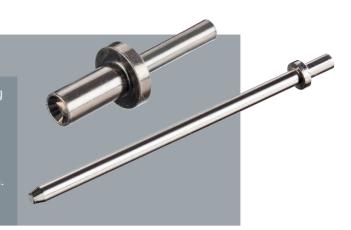
2

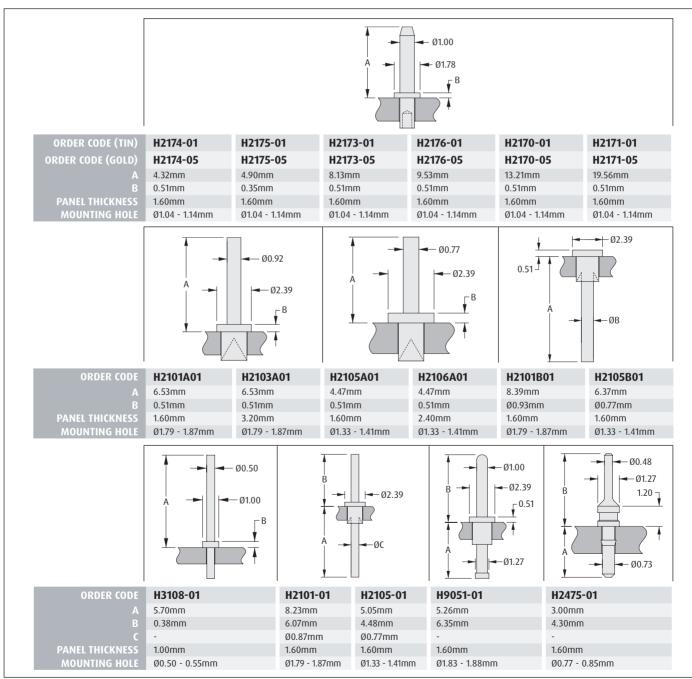
10.16mm

Red

Turned Terminals

- ► Material: Brass with tin plating also available in gold plating for the 1mm chamfered terminal pins (H217x series).
- ▶ Retention by swaging feature available.
- ► For swaging tool, change order code prefix to Z, and suffix to 00 (example Z2174-00).
- **▶** Suitable for a variety of PCB thicknesses from 1mm to 3.2mm.



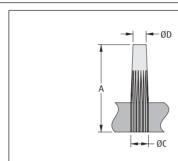


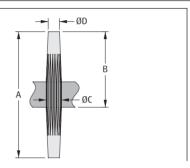


Turned Terminals

- ► Material: Brass with tin plating.
- **♪** Retention by swaging feature available.
- ➤ For swaging tool, change order code prefix to Z, and suffix to 00 (example Z2051-00).
- Suitable for a variety of PCB thicknesses from 1.6mm to 3.2mm.







ORDER CODE
PANEL THICKNESS
MOUNTING HOLE

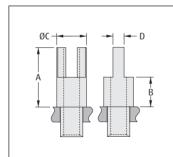
H2088-01
7.14mm
-
Ø1.13mm
Ø0.76mm
2.40mm
Ø1.00 - 1.05mm

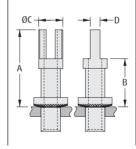
H2085-01
7.14mm
-
Ø1.43mm
Ø1.12mm
2.40mm
Ø1.30 - 1.35mm

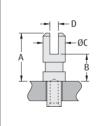
H2081-01	H2089-01
9.53mm	11.91mm
-	7.14mm
Ø1.68mm	Ø1.13mm
Ø1.22mm	Ø0.76mm
2.40mm	2.40mm
Ø1.55 - 1.60mm	Ø1.00 - 1.05mm

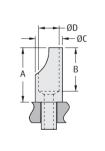
89-01	H2087-01
mm	11.91mm
nm	7.14mm
mm	Ø1.43mm
ómm	Ø1.12mm
mm	2.40mm
) - 1.05mm	Ø1.30 - 1.35mm

H2083-01
15.88mm
9.52mm
Ø1.68mm
Ø1.22mm
2.40mm
Ø1.55 - 1.60mm









ORDER CODE
THROUGH HOLE
PANEL THICKNESS
MOUNTING HOLE

H2051-01
4.78mm
2.39mm
Ø3.18mm
0.73mm
Ø1.06mm
1.60mm
Ø1.60 - 1.68mm

H2055-01
6.35mm
3.17mm
Ø3.18mm
1.13mm
Ø1.74mm
2.40mm
Ø2.40 - 2.48mm

H2039-01
12.65mm
7.90mm
Ø3.90mm
1.54mm
Ø2.22mm
3.20mm
Ø3.19 - 3.27mm

H9023-01
3.96mm
2.23mm
Ø1.83mm
0.71mm
-
1.60mm
Ø1 28 - 1 38mm

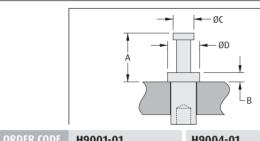
H9026-01
6.35mm
5.08mm
Ø3.18mm
Ø2.39mm
Ø1.13mm
2.40mm
Ø1.84 - 1.92mm

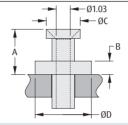


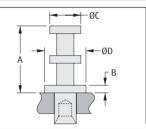
Turned Terminals

- ► Material: Brass with tin plating.
- **▶** Retention by swaging feature available.
- ► For swaging tool, change order code prefix to Z, and suffix to 00 (example Z9001-00).
- Suitable for a variety of PCB thicknesses from 1.6mm to 3.2mm.







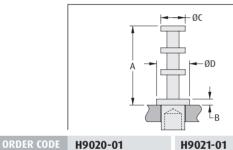


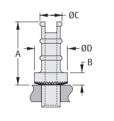
OKDLK CODE	пэи
	2.39n
	0.46n
	Ø1.02
	Ø1.57
PANEL THICKNESS	1.60n
MOUNTING HOLE	Ø1.25

001-01	H9004-01
9mm	4.74mm
6mm	1.19mm
02mm	Ø1.91mm
57mm	Ø3.18mm
0mm	1.60mm
25 - 1.33mm	Ø2.01 - 2.09mm



H2121-01
5.15mm
0.58mm
Ø2.39mm
Ø3.18mm
1.60mm
Ø1.69 - 1.74mm





PANEL THICKNESS
MOUNTING HOLE

H9020-01	H9021-01
7.65mm	7.65mm
0.58mm	0.58mm
Ø2.36mm	Ø2.36mm
Ø3.18mm	Ø3.18mm
1.60mm	2.40mm
Ø2.35 - 2.45mm	Ø2.35 - 2.45mr

H2072-01
6.29mm
1.01mm
Ø3.25mm
Ø3.96mm
1.60mm
Ø2.17 - 2.27mm

H2072Z01	
6.52mm	
1.24mm	
Ø2.54mm	
Ø3.96mm	
1.60mm	
Ø2.01 - 2.11mm	

H2072ZL1
6.52mm
1.24mm
Ø2.54mm
Ø3.96mm
2.40mm
Ø2.01 - 2.11mm

	ØC
A TI	⊸ ØD
î L	v B
Y	
	7

ORDER CODE	H2074Z01	H2071ZS1	H2071Z01	H2073Z01
	8.74mm	9.12mm	9.12mm	9.12mm
	1.60mm	1.78mm	1.78mm	1.78mm
	Ø4.57mm	Ø3.18mm	Ø3.18mm	Ø3.18mm
	Ø6.35mm	Ø4.75mm	Ø4.75mm	Ø4.75mm
PANEL THICKNESS	3.20mm	1.60mm	2.40mm	3.20mm
MOUNTING HOLE	Ø3.93 - 4.03mm	Ø2.68 - 2.78mm	Ø2.68 - 2.78mm	Ø2.68 - 2.78mm

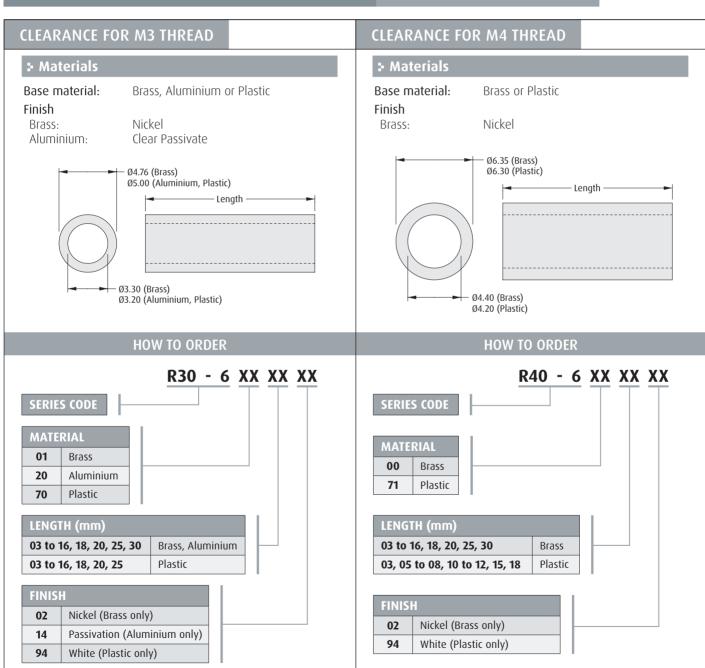


Metric Spacers

Clearance Spacers

- ▶ Standard lengths available from 3 to 30mm.
- ▶ Brass spacers: base material is free-machining brass, with nickel plating.
- **▶** Aluminium spacers: supplied with a clear passivation finish to prevent oxidation.
- ▶ Plastic material: Nylon 66 UL94V-2.



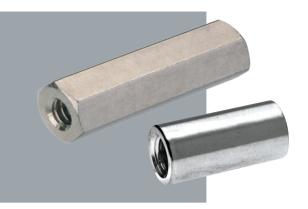




Metric Spacers

Threaded Female Spacers

- ▶ Available in a variety of standard body lengths.
- ♣ Brass spacers: base material is free-machining brass, with nickel plating.
- ▶ Plastic material: Nylon 66 UL94V-2.
- Longer thread lengths may not be threaded through the complete length, but have female threads at both ends.



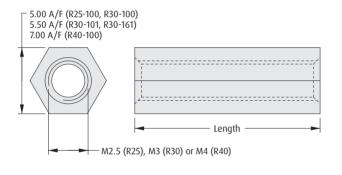
HEXAGONAL

: Materials

Base material: Brass or Plastic

Finish

Brass: Nickel



CIRCULAR

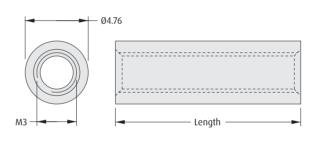
: Materials

Base material:

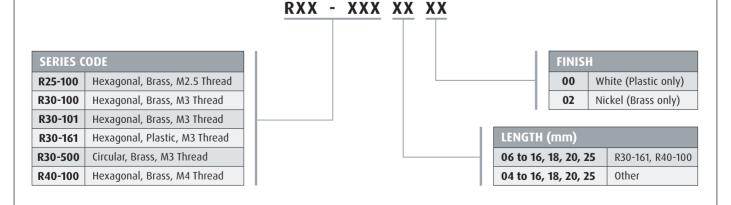
Brass

Finish

Brass: Nickel



HOW TO ORDER





Metric Spacers

Threaded Male Pillars

- ♣ Available in a choice thread sizes, with a variety of standard body lengths.
- **▶** Base material is free-machining Brass, with nickel plating.

